Designed to Perform

Technical Document

Multicam 11 Installation Guide

Table of Contents

Introduction 4

Installation on MTPC A2/A3 or A2/A4 (USB-only model) 5

Installation Menu 5

EVS Multicam 11 Upgrade 6

First upgrade from a Multicam 10 to Multicam 11 8

Format C: drive and Install Multicam 11 10

Maintenance 12

Partitioning 12

Versions 13

XHub Upgrade 14

BIOS reset for HS87x 15

Exit to dos 15

Support contacts 16

Exploring the Multicam 11 startup menu 17

Boot Multicam 11 17

Maintenance menu 18

Versions 18

XHub Upgrade 20

BIOS Reset for HS87X 20

Exit to DOS 20

Start OS with PC LAN support 20

Support & contact information 21

ADVANCED PROCEDURES 22

Adding multiple versions on the XT server 22

Adding a version when creating the USB key 22

Adding a version directly on the server 22

Adding a version by FTP 23

Location of EVS & AVCFG parameters 24

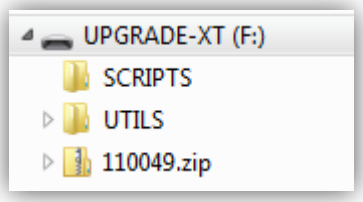
Introduction

Before proceeding to the Multicam 11 installation-upgrade procedure, we do suggest you to carefully read this guide and the corresponding release notes.

Multicam 11 can only be installed on XT[2], XT[2]+, XT[3], XS-5U, XS-6U, XTNano,XSNano and XL systems running with an MTPC revision: A2/A3 or A2/A4

The installation files are delivered in a zip archive comprised of two folders (image & install):

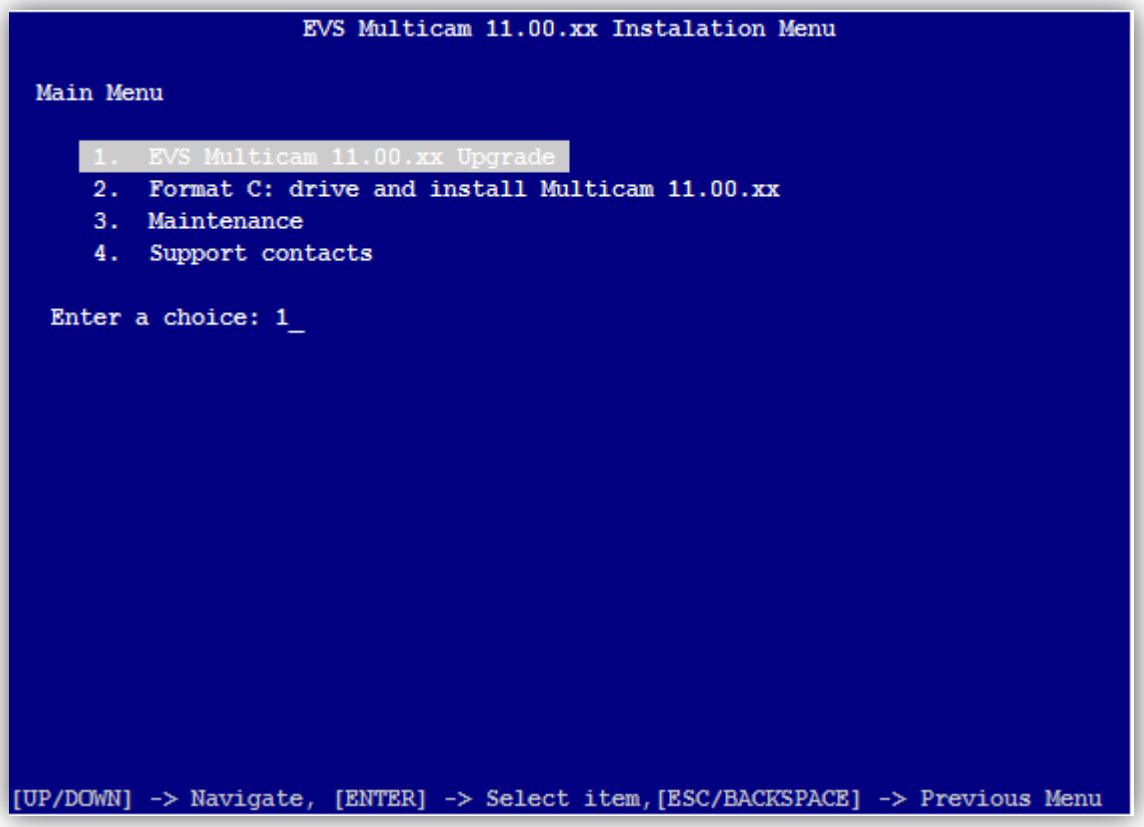
- Extract this zip file to a temporary folder on your windows PC
- Insert a blank USB key (256MB or larger) into the PC and check the letter drive assigned to the USB key.
- In the temporary folder, double-click on “MakeUSB.bat” and follow the instructions
- Indicate the drive letter assigned to the USB key
- The key will be formatted and installation files are copied to the USB key



Installation on MTPC A2/A3 or A2/A4 (USB-only model)

Insert the USB key into the MTPC front panel of the XT series server and reboot the system to proceed to the installation menu:

Installation Menu

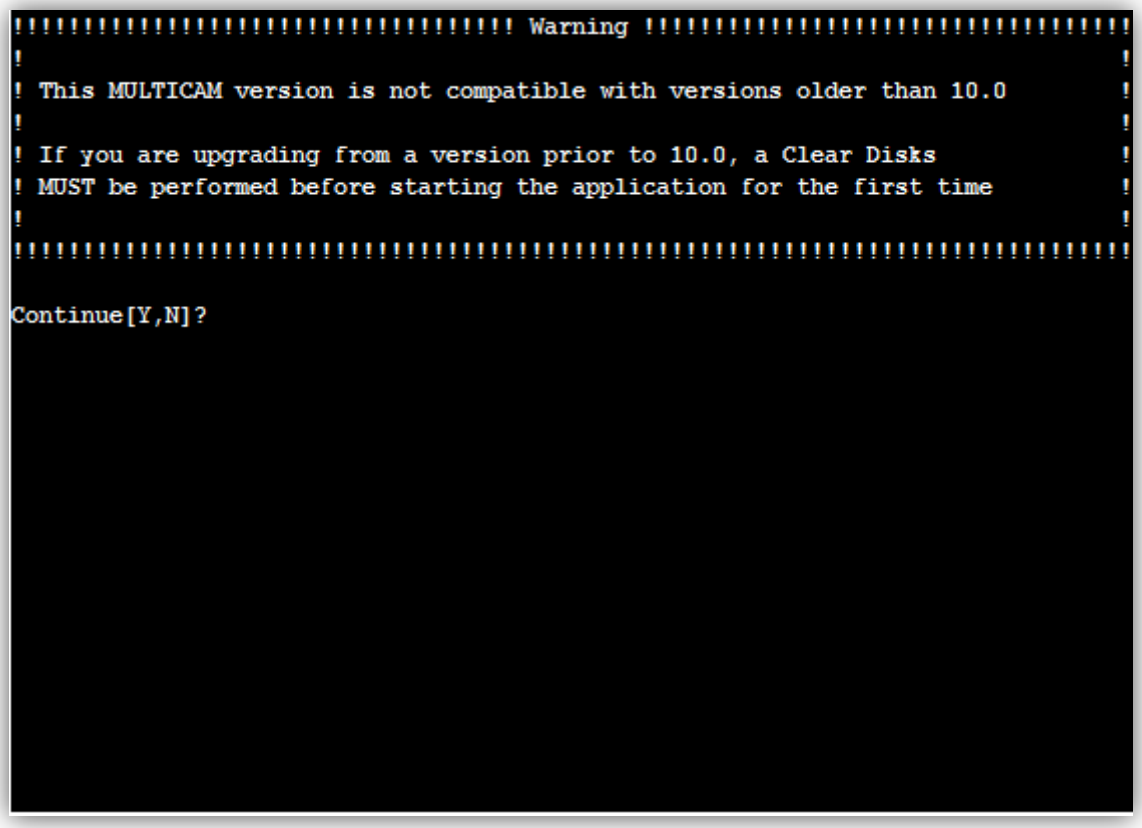

EVS Multicam 11.00.xx Instalation Menu
Main Menu
1. EVS Multicam 11.00.xx Upgrade
2. Format C: drive and install Multicam 11.00.xx
3. Maintenance
4. Support contacts
Enter a choice: 1_
[UP/DOWN] -> Navigate, [ENTER] -> Select item,[ESC/BACKSPACE] -> Previous Menu

From the install menu, you have four options presented:

1. **EVS Multicam Upgrade:** This option means that only the core files of the Multicam 11 application will be copied to the system drive partition, and a process is used to migrate previous configuration files into the upgraded version.
2. **Format C: and Install Multicam:** This install option means a full format of the system drive partition will be performed, and then a clean install of Multicam 11 afterwards.
3. **Maintenance:** will allow access to various support process and tools like BIOS reloading
4. **Support Contacts:** will reveal contact information for EVS support offices

EVS Multicam 11 Upgrade

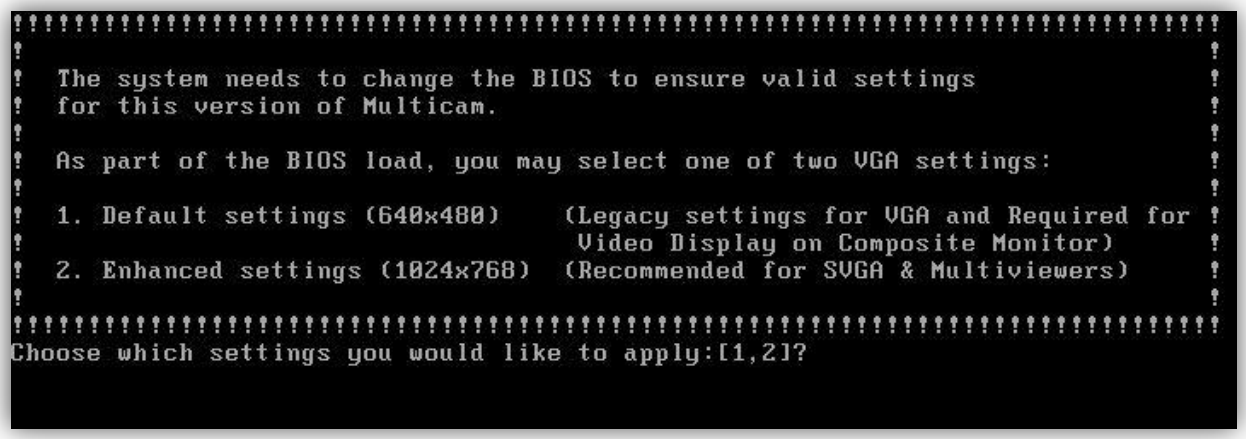
The installer first detects if a Multicam version is currently present and which version is currently installed. The following warning message is displayed:


!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!! Warning !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
!
! This MULTICAM version is not compatible with versions older than 10.0
!
! If you are upgrading from a version prior to 10.0, a Clear Disks
! MUST be performed before starting the application for the first time
!
!!!
Continue[Y,N]?

This warning states that the Multicam version you wish to install is not compatible with previous versions. If you upgrade from Multicam 9 or a lower version, you MUST clear the video disks before starting Multicam 11 for the first time. The clips and video material recorded in Multicam 9 or lower are not compatible with Multicam 11.

Backuped clips created with Multicam 9 are compatible.

After the installation of the application, an automatic update of the MTPC's BIOS will be performed if needed. During this process you will be presented with two options for the VGA resolution to be configured, in this screen you to choose option 1 or option 2.


The system needs to change the BIOS to ensure valid settings
for this version of Multicam.
As part of the BIOS load, you may select one of two VGA settings:
1. Default settings (640x480) (Legacy settings for VGA and Required for
Video Display on Composite Monitor)
2. Enhanced settings (1024x768) (Recommended for SVGA & Multiviewers)
Choose which settings you would like to apply:[1,2]?

After the BIOS update, a warning message will appear which reminds you to set a jumper on the MTPC if you use the VGA2TV adapter (i.e. ability to output the VGA as a composite video signal). If you are not using this adapter, this jumper change is not required.

WARNING
If you are using the VGA2TV Adapter, you MUST ensure that the
ENVS Jumper is PRESENT on the MTPC board when running Multicam 9!
Press any key to continue . . .

To complete the installation procedure, a screen will prompt you to remove the USB before rebooting the XT server.

It's important to note that during the installation of the Multicam 11, the configuration lines will be converted to be compatible in Multicam 11.

NOTE: If after the installation of Multicam 11 you change the active version to a version older than Multicam11, your configuration lines will not be readable anymore by the version of Multicam loaded. You can however restore the old M10 lines see the section "Restore M10 lines: for M10 use only" for more details.

First upgrade from a Multicam 10 to Multicam 11

When you upgrade your multicam 10 to a multicam 11 for the first time, the system will proceed to an upgrade of the quad MTPC.

Installation with Xnet monitor

During the install with the Xnet Monitor, your server will restart automatically then install the new version and start the screen where you can launch a config line. On this screen a warning message will appear on the screen

The message ask you to power off/on the server. A simple reboot of the software is not enough, **you have to turn off/on the power switch**. During the restart, the quad MTPC will be upgrade. Once the upgrade finished, the server continue to boot normally. The total duration of the operation (upgrade Multicam + quad MTPC and restart) is around 12 minutes.

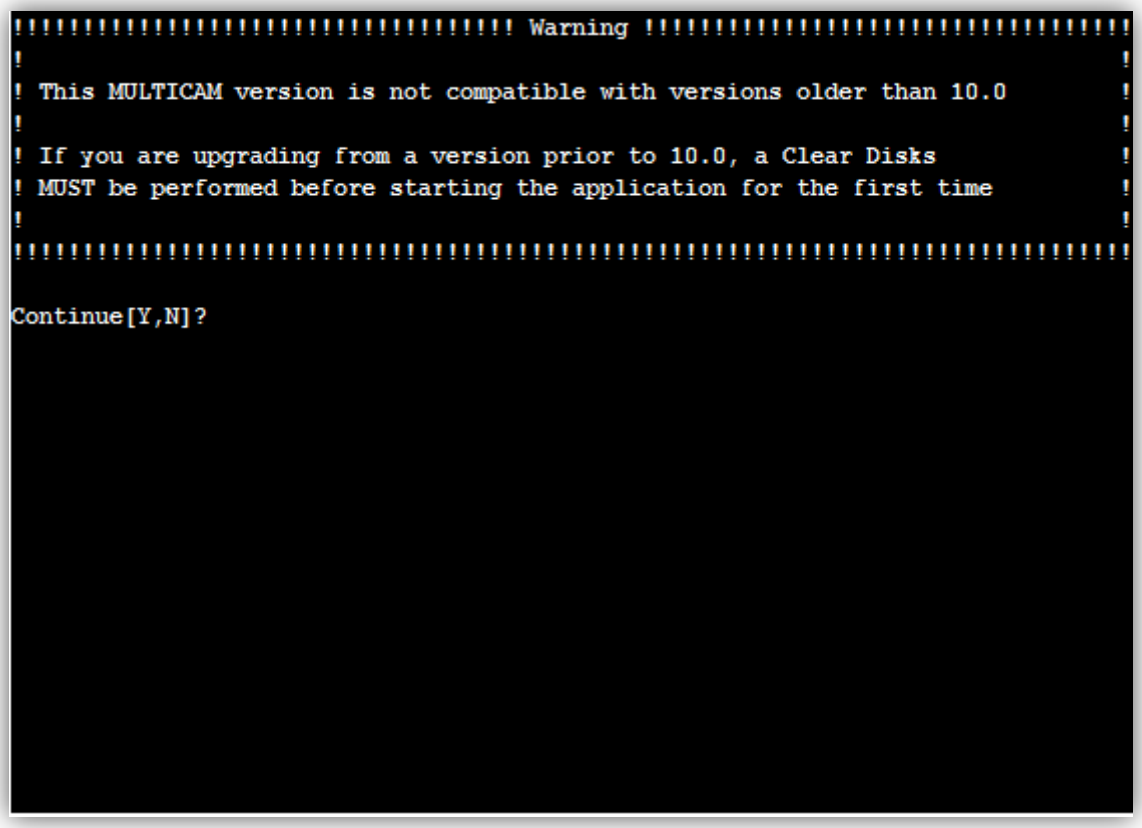
Installation with a USB key

When you have start the upgrade from the Instalation menu, the server upgrade the multicam then at the end, ask you to remove the key and restart the server. During the restart, the quad MTPC will be upgrade.

Once the upgrade finished, the server continue to boot normally. The total duration of the operation (upgrade Multicam + quad MTPC) is around 12 minutes.

Format C: drive and Install Multicam 11

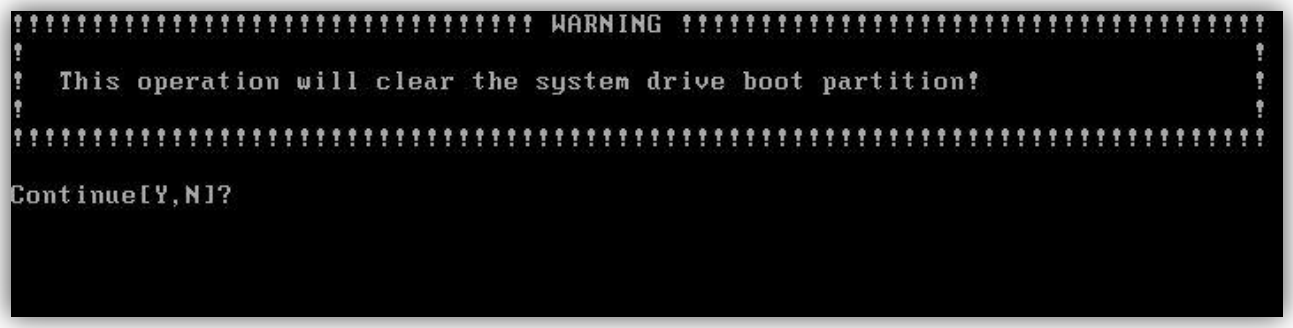
A full install starts by erasing all the contents of the system drive partition.


!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!! Warning !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
!
! This MULTICAM version is not compatible with versions older than 10.0
!
! If you are upgrading from a version prior to 10.0, a Clear Disks
! MUST be performed before starting the application for the first time
!
!!!
Continue[Y,N]?

This warning states that the Multicam version you wish to install is not compatible with previous versions. If you upgrade from Multicam 9 or a lower version, you MUST clear the video disks before starting Multicam 11 for the first time. The clips and video material recorded in Multicam 9 or lower are not compatible with Multicam 11.

Clips created with Multicam 9 are compatible.

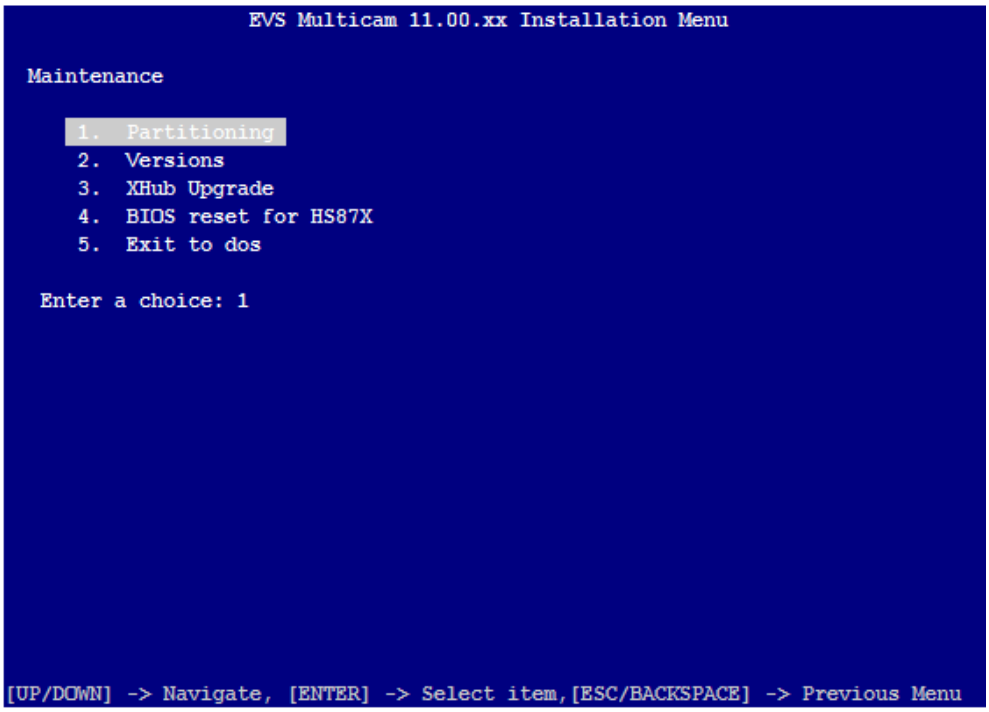
A second warning states that the system drive partition will be cleared during this operation.



You may cancel this operation and return to the installation menu if selected by mistake. Pressing [Y] will proceed to the format of the drive before installing the Multicam 11.

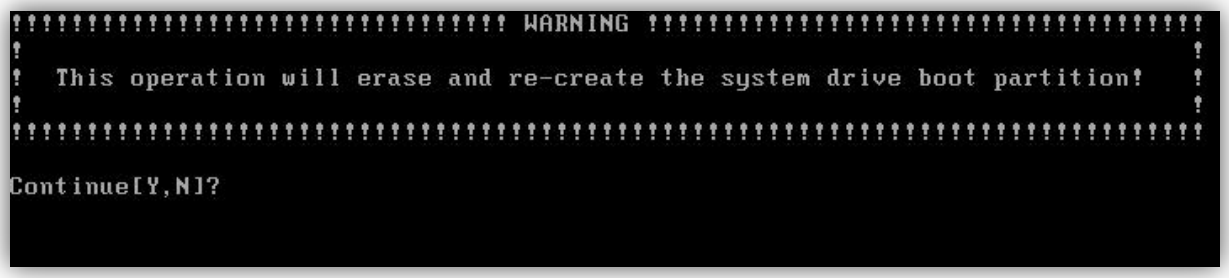
Since this point, the installation follow the normal process describe in the section “EVS Multicam 11 Upgrade”

Maintenance


EVS Multicam 11.00.xx Installation Menu
Maintenance
1. Partitioning
2. Versions
3. XHub Upgrade
4. BIOS reset for HS87X
5. Exit to dos
Enter a choice: 1
[UP/DOWN] -> Navigate, [ENTER] -> Select item,[ESC/BACKSPACE] -> Previous Menu

Partitioning

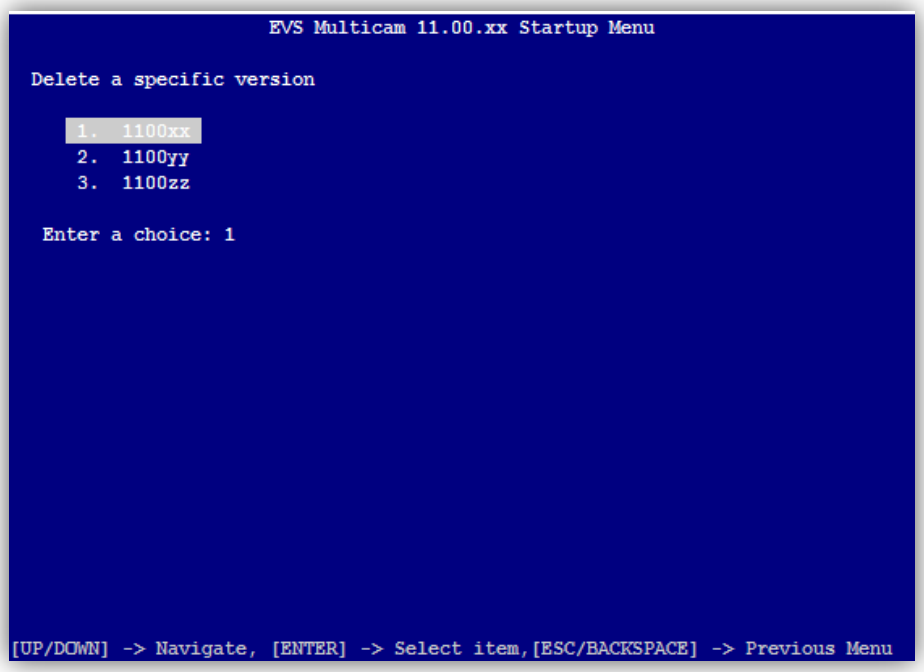
Use this option only if you want to completely format the MTPC drive. This option removes every existing partition and re-creates a new empty partition of 2GB in FAT16. As a result, you have to then proceed to choice 2; format the system and eventually install the Multicam application.



Versions

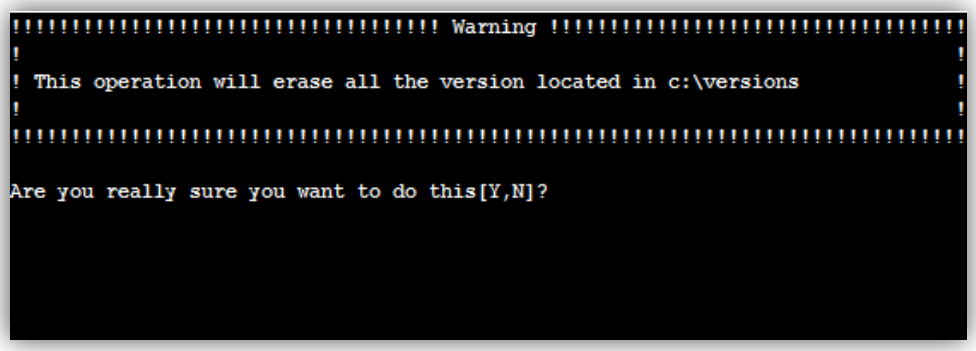
Delete a specific version

Due to the possibility to have multiple versions on the server, the Multicam is able to manage these versions and delete one or more versions if needed. The “delete specific version” part of the maintenance menu allow the user to remove one or more versions from the server.


EVS Multicam 11.00.xx Startup Menu
Delete a specific version
1. 1100xx
2. 1100yy
3. 1100zz
Enter a choice: 1
[UP/DOWN] -> Navigate, [ENTER] -> Select item,[ESC/BACKSPACE] -> Previous Menu

Delete all versions

This command will clear all versions installed. A warning message asks for confirmation before going ahead.

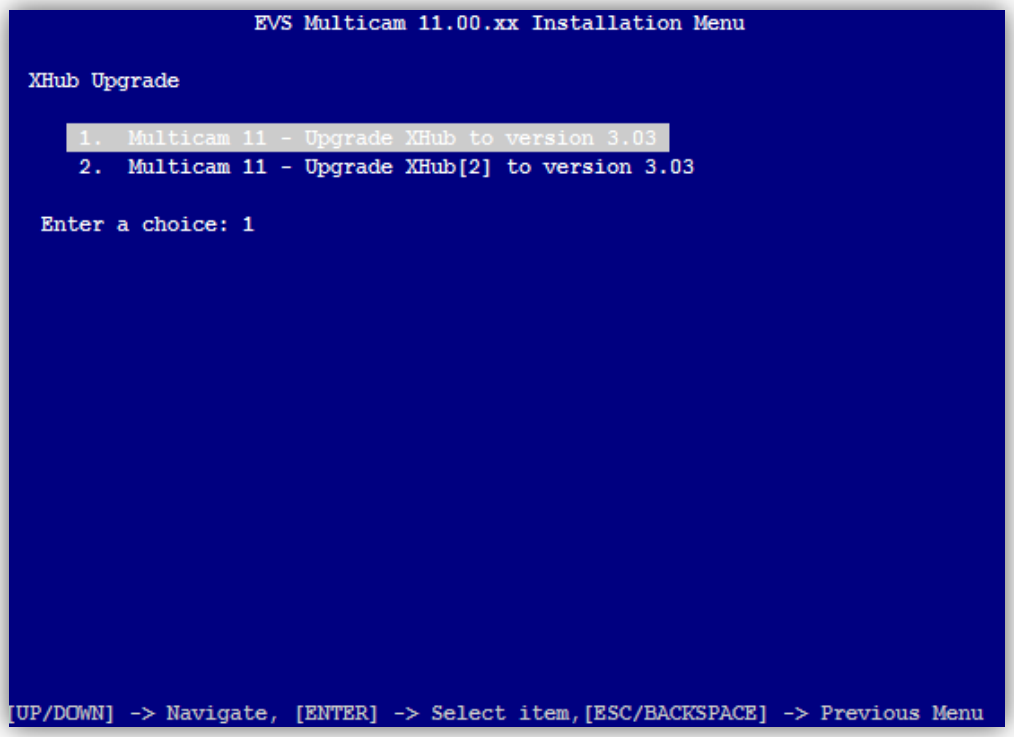


Restore M10 lines: for M10 use only

This command will restore the old M10 lines backuped during the upgrage from a Multicam 10 to a Multicam 11. These lines are useable only with a Multicam 10 not with a Multicam 11.

NOTE: If you want to run a M10, you have to restore the M10 lines before to change the version from M11 to M10. Indeed there is no possibility to restore the M10 lines from a M10.

XHub Upgrade

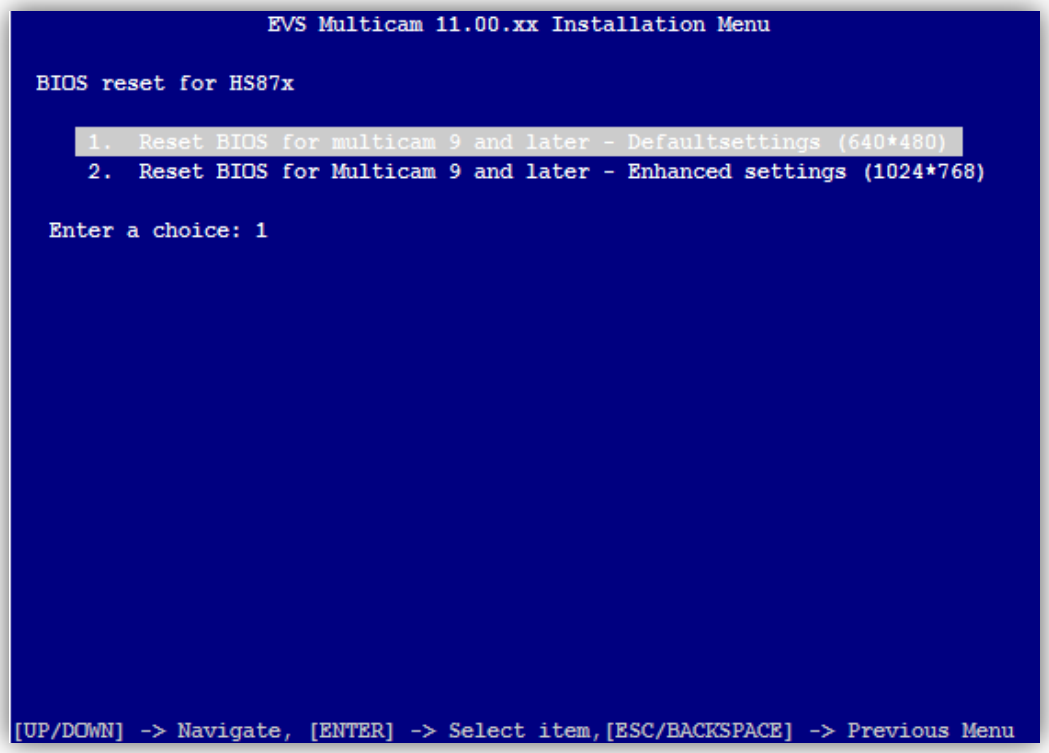

EVS Multicam 11.00.xx Installation Menu
XHub Upgrade
1. Multicam 11 - Upgrade XHub to version 3.03
2. Multicam 11 - Upgrade XHub[2] to version 3.03
Enter a choice: 1
[UP/DOWN] -> Navigate, [ENTER] -> Select item,[ESC/BACKSPACE] -> Previous Menu

The XHub and HXub[2] could be updated through the Multicam. You can use this menu to update them to the 3.03 version. When you have chosen an option, the procedure is described step by step on the VGA.

NOTE: For the XHub[3] the Multicam server is no longer able to upgrade directly from the RS232 port. The USB port of the hub is used to install the last firmware version 3.04 and higher from a windows computer.

BIOS reset for HS87x

If needed, the Multicam can reset the BIOS of the MTPC. Two choices are available; the option chosen depend of the hardware used for the VGA.


EVS Multicam 11.00.xx Installation Menu
BIOS reset for HS87x
1. Reset BIOS for multicam 9 and later - Defaultsettings (640*480)
2. Reset BIOS for Multicam 9 and later - Enhanced settings (1024*768)
Enter a choice: 1
[UP/DOWN] -> Navigate, [ENTER] -> Select item,[ESC/BACKSPACE] -> Previous Menu

Exit to dos

The DOS prompt will allow the user to exit to a traditional DOS prompt to edit copy and manage files

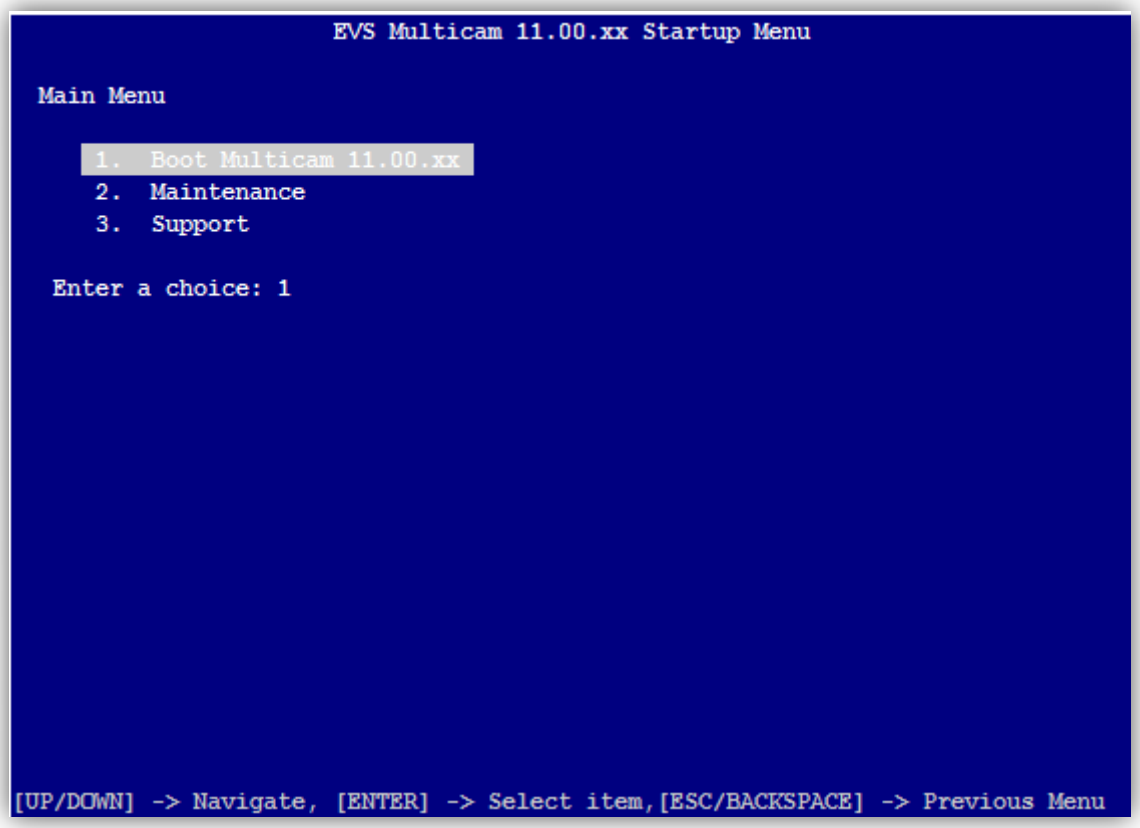
Support contacts

	WORKING HOURS	NON WORKING HOURS	EMAIL
APAC			
Australia	+61 02 9452 8600	+61 420 30 73 87	support@evs-asia.com.hk
China	+86 139 1028 9860	+86 139 1028 9860	support@evschina.com
India	+91 22 6697 2215	+91 98 9017 5958	support.india@evs.tv
Hong Kong	+852 94 01 23 95	/	support@evs-asia.com.hk
EMEA			
Belgium	+32 4 361 70 00	+32 495 284 000	support@evs.tv
France	+33 1 46 99 9003	+32 495 284 000	support.france@evs.tv
Germany	+49 89 4111 949 77	+32 495 284 000	support.germany@evs.tv
Iberica	+34 91 490 39 33	+32 495 284 000	support.iberica@evs.tv
Italy	+39 334 631 1493	+32 495 284 000	support.italy@evs.tv
Middle East	+971 4 3654 231	+32 495 284 000	support.middle-east@evs.tv
UK	+44 1372 387 266	+32 495 284 000	support.uk@evs.tv
NALA			
Canada	+1 514 400 9369	+1 514 400 9369	support.canada@evs.tv
Mexico	+52 55 46 31 22 09	+52 55 46 31 22 09	/
Usa	+1 973 575 7813	+1 973 575 7813	support.usa@evs.tv

Press any key to continue ...

Exploring the Multicam 11 startup menu

When booting the XT server after a Multicam 11 installation, this start-up menu is displayed each time:


EVS Multicam 11.00.xx Startup Menu
Main Menu
1. Boot Multicam 11.00.xx
2. Maintenance
3. Support
Enter a choice: 1
[UP/DOWN] -> Navigate, [ENTER] -> Select item,[ESC/BACKSPACE] -> Previous Menu

If you want to boot the Multicam 11, press option <1>

If you want enter the maintenance menu, press <2>

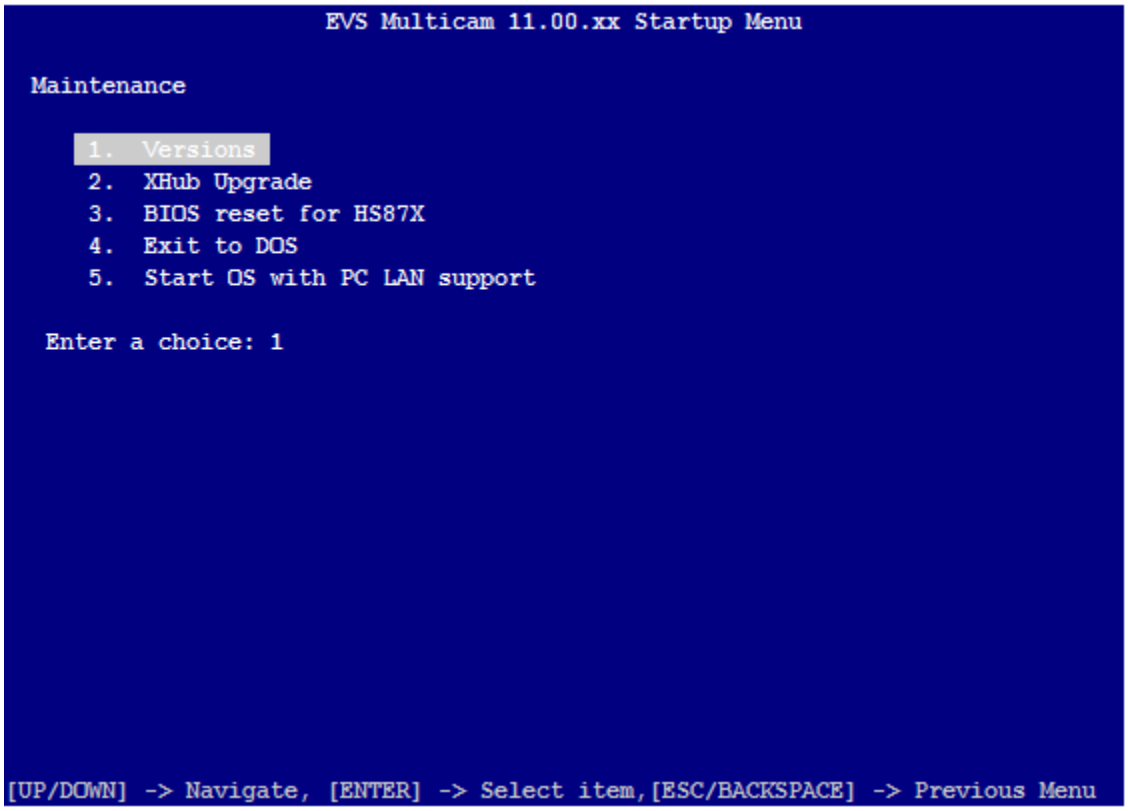
If you want to display contact and support information, press <3>

Boot Multicam 11

If this option is selected, the system will proceed past the initial boot menu into the Multicam version that is currently active. The initial boot menu will proceed after 5 seconds if the user does not press a key.

Maintenance menu

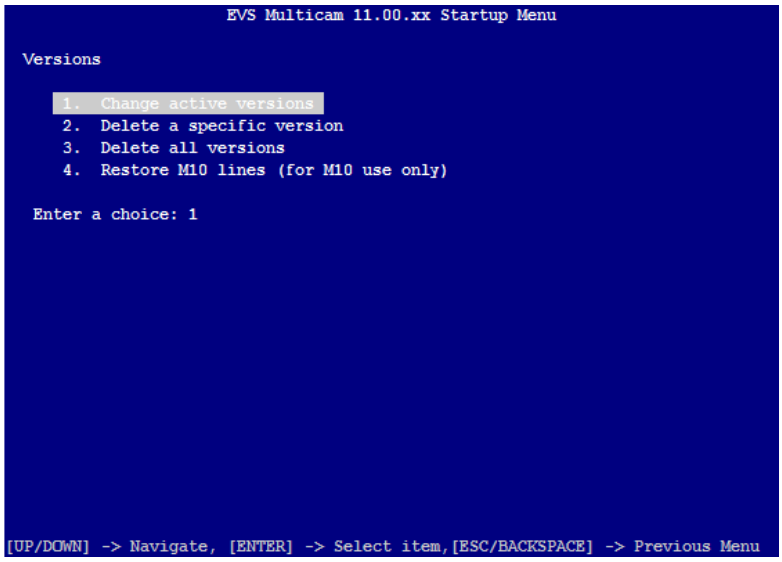
The maintenance menu offers different possibilities to maintain the server. The user has the possibility, among other things, to manage the version, upgrade an Xhub and reset the BIOS.


EVS Multicam 11.00.xx Startup Menu
Maintenance
1. Versions
2. XHub Upgrade
3. BIOS reset for HS87X
4. Exit to DOS
5. Start OS with PC LAN support
Enter a choice: 1
[UP/DOWN] -> Navigate, [ENTER] -> Select item,[ESC/BACKSPACE] -> Previous Menu

Versions

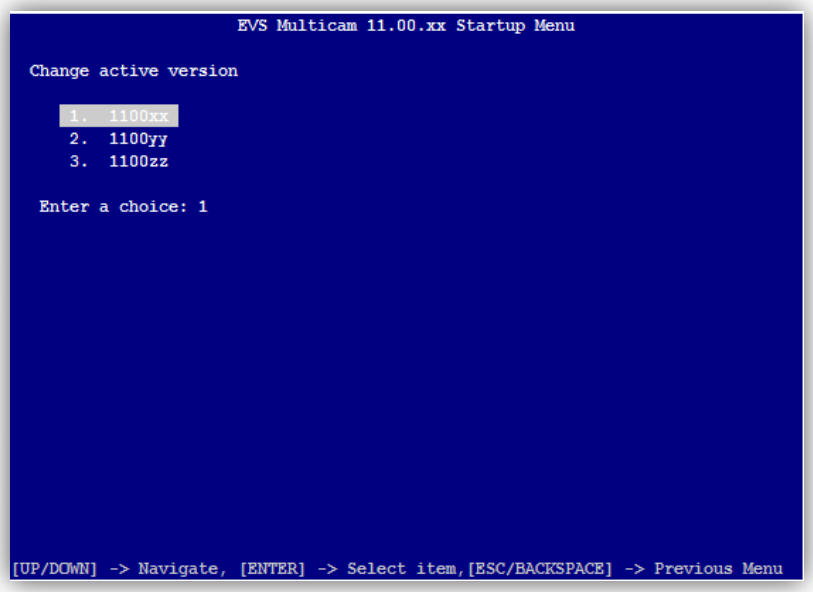
Since Multicam 9, it is now possible to have up to 5 pre-installed Multicam versions on the server.

From the boot menu, users can now select a maintenance menu where they can easily and quickly swap to another Multicam version. A quick install is done in the background and users can upgrade or downgrade in a minute without using the USB key.


EVS Multicam 11.00.xx Startup Menu
Versions
1. Change active versions
2. Delete a specific version
3. Delete all versions
4. Restore M10 lines (for M10 use only)
Enter a choice: 1
[UP/DOWN] -> Navigate, [ENTER] -> Select item,[ESC/BACKSPACE] -> Previous Menu

Change active version

When changing the active Multicam version, a series of warning messages might appear. Due to differences of operating system and file management between Multicam 8 and Multicam 11, an automatic BIOS update is performed and clearing the video disks is required whenever an upgrade is engaged.


EVS Multicam 11.00.xx Startup Menu
Change active version
1. 1100xx
2. 1100yy
3. 1100zz
Enter a choice: 1
[UP/DOWN] -> Navigate, [ENTER] -> Select item,[ESC/BACKSPACE] -> Previous Menu

Delete a specific version

See section “Delete a specific version” of the installation menu

Delete all versions

See section “Delete all versions” of the installation menu

Restore M10 lines: for M10 use only

See section “Restore M10 lines: for M10 use only” of the installation menu

XHub Upgrade

See section “XHub Upgrade” of the installation menu

BIOS Reset for HS87X

See section “BIOS reset for HS87x” of the installation menu

Exit to DOS

The DOS prompt will allow the user to exit to a traditional DOS prompt to edit, copy and manage files

Start OS with PC LAN support

This mode allows booting for purposes of file transfer from the PC LAN, but will block the bootup of the system. This does not allow for defining the PC LAN Address, and must have been defined previously.

Support & contact information

	WORKING HOURS	NON WORKING HOURS	EMAIL
APAC			
Australia	+61 02 9452 8600	+61 420 30 73 87	support@evs-asia.com.hk
China	+86 139 1028 9860	+86 139 1028 9860	support@evschina.com
India	+91 22 6697 2215	+91 98 9017 5958	support.india@evs.tv
Hong Kong	+852 94 01 23 95	/	support@evs-asia.com.hk
EMEA			
Belgium	+32 4 361 70 00	+32 495 284 000	support@evs.tv
France	+33 1 46 99 9003	+32 495 284 000	support.france@evs.tv
Germany	+49 89 4111 949 77	+32 495 284 000	support.germany@evs.tv
Iberica	+34 91 490 39 33	+32 495 284 000	support.iberica@evs.tv
Italy	+39 334 631 1493	+32 495 284 000	support.italy@evs.tv
Middle East	+971 4 3654 231	+32 495 284 000	support.middle-east@evs.tv
UK	+44 1372 387 266	+32 495 284 000	support.uk@evs.tv
NALA			
Canada	+1 514 400 9369	+1 514 400 9369	support.canada@evs.tv
Mexico	+52 55 46 31 22 09	+52 55 46 31 22 09	/
Usa	+1 973 575 7813	+1 973 575 7813	support.usa@evs.tv

Press any key to continue ...

ADVANCED PROCEDURES

Adding multiple versions on the XT server

Since Multicam 9, it has been possible to have multiple pre-installed Multicam versions on the server.

Adding Multicam versions is possible by three different processes.

- When creating the USB key prior the installation procedure
- Directly adding files onto the XT server in a specified location.
- Directly adding files onto the XT server by FTP

Adding a version when creating the USB key

Example: Adding a Multicam 10.04.30 when creating the USB key of version 11.00.XX

1) Download the zip file of the version 11.00.XX on the EVS web site
2) Extract the 11.00.XX zip in a temporary folder. The zip contains two folders (image & install).
3) Download the zip file of the version 10.04.30 on the EVS web site
4) Extract the 10.04.30.zip in a different temporary folder.
5) In the temporary folder of 10.04.30 use MakeZip.bat
6) Extract the zip created to the folder **\Install\ADDONS\VERSIONS** in the temporary folder of 11.00.XX
7) Create a usb key using MakeUsbKey.bat in the temporary folder of 11.00.XX

Adding a version directly on the server

Example: Adding a Multicam 10.04.30 directly onto the server

1) Download the zip file of the version 10.04.30 on the EVS web site
2) Extract the 10.04.30 zip in a temporary folder. The zip contains two folders (image & install).
3) Create an usb key by using MakeUsbKey.bat in the temporary folder of 10.04.30
4) Create the file 100430.zip by using MakeZip.bat in the temporary folder of 10.04.30
5) Extract the 100430.zip in the USB key
6) Insert the key in the server and reboot
7) In the maintenance menu choose exit to dos
8) In the DOS, go to D:\VERSIONS
9) Create a folder 100430 for the version with the following command: *mkdir 100430*
    a. *Note: do NOT add the '.' Between the numbering*
10) Copy the folder 100430 from the key to the disk with the following command : *xcopy /E C:\100430 D:\VERSIONS\100430*
11) Reboot. Your are now able to switch to the version 10.04.30 in the maintenance menu

Adding a version by FTP

Example: Adding a Multicam 10.04.30 by FTP

1) Download the zip file of the version 10.04.30 on the EVS web site
2) Extract the 10.04.30 zip in a temporary folder. The zip contains two folders (image & install).
3) Create the file 100430.zip by using MakeZip.bat in the temporary folder of 100430
4) Open a ftp session on the server either by your classic FTP client either through the Xnet monitor
5) Extract the Zip file 100430.zip in the folder C\VERSIONS of the server
6) Reboot. Your are now able to switch to the version 10.04.30 in the maintenance menu

Location of EVS & AVCFG parameters

In Multicam 11 the way to store the parameters files has changed. The file structure has been completely redesigned. The files used in Multicam 11 are not compatible with the files used in the previous versions.

The lines are now located in **\LSMCE\DATA\SETUP** as CFG000XX.LIN files

Old (prior to M11) AVCFG configuration parameters that have been converted during the M11 boot are located in \LSMCE\DATA\SETUP\OLDAVCFG

When creating the USB installation key, SETUP files can be inserted in the temp folder (\Image\LSMCE\DATA\SETUP) to allow pre-configure files to be dropped by the Multicam 11 installer.